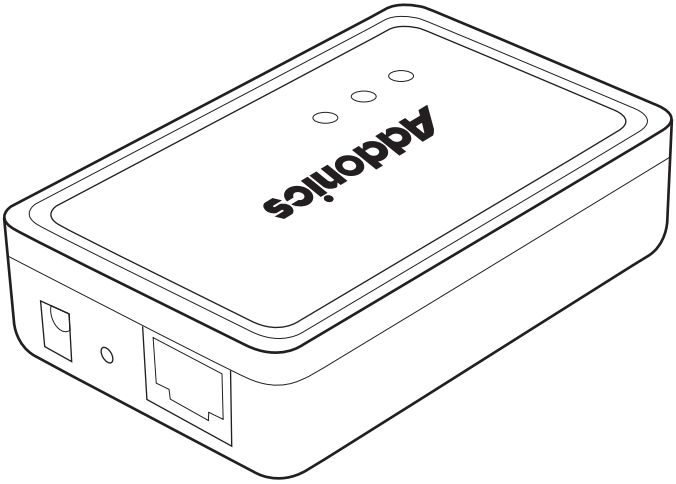
Addonics
TECHNOLOGIES



User Guide

NAS 3.0 Adapter

(NAS30U2)

www.addonics.com

v5.1.11

Technical Support
If you need any assistance to get your unit functioning properly, please have your product information ready and contact Addonics Technical Support at:

Hours: 8:30 am - 6:00 pm PST
Phone: 408-453-6212
Email: http://www.addonics.com/support/query/

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The NAS3.0 adapter is a flexible, economical and powerful unit for your Network. Follow the instructions to help you connect, setup, and configure it.

Note: Any external USB storage device that you connect to the NAS 3.0 adapter is required to be pre-formatted with either NTFS, FAT32 or FAT64. When the external USB storage device is connected to the NAS 3.0 adapter, it creates a configuration file and a default Public folder.

If you are connecting an external USB drive with data on it, all the data will remain on the drive but the NAS cannot see those data unless transferred to the Public folder.

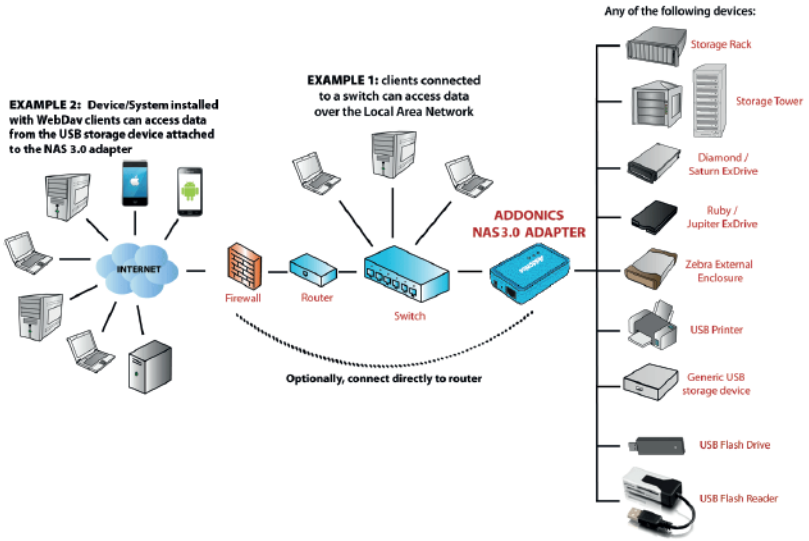
Network Environment
There are 3 different setup conditions you can choose:

A. Setup NAS30U2 as a DHCP Client:
If the NAS30U2 is connected to a LAN network with an active DHCP server, it will obtain an IP address from DHCP server automatically.

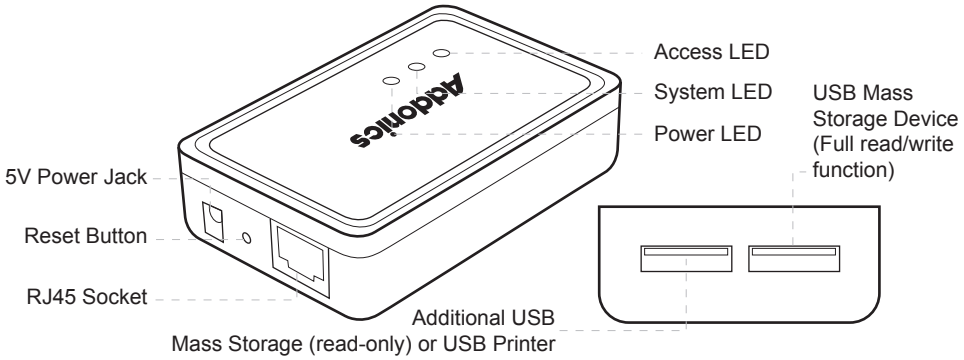
B. Setup NAS30U2 as DHCP Server:
If your LAN network does not have an active DHCP server, the NAS30U2 will immediately act as DHCP server and assign itself an IP address for installation.

C. Setup NAS30U2 in Static IP environment:
You first need to configure the IP address for NAS30U2 to operate in the static IP environment. For Configuring details, please refer to "LAN Config" setup page.

Illustration of a NAS30U2 connected over the network


EXAMPLE 2: Device/System installed with WebDav clients can access data from the USB storage device attached to the NAS 3.0 adapter
EXAMPLE 1: clients connected to a switch can access data over the Local Area Network
INTERNET
Firewall
Router
Switch
ADDONICS NAS3.0 ADAPTER
Optionally, connect directly to router
Any of the following devices:
Storage Rack
Storage Tower
Diamond / Saturn ExDrive
Ruby / Jupiter ExDrive
Zebra External Enclosure
USB Printer
Generic USB storage device
USB Flash Drive
USB Flash Reader

NAS30U2 Hardware Installation



1. Connect external USB Storage device into USB port of the NAS Adapter. Power on the USB Storage device.

2. Connect LAN cable via LAN switch and Router.

3. Connect 5V power adapter to power up the NAS adapter

NAS30U2 connected directly to a computer's NIC card

If you connect the NAS30U2 to a computer directly, it will act as a DHCP server, assigning itself an IP address automatically and will also assign an IP address to the computer's network card. This configuration will not enable you to see the drive on the network.

NAS30U2 connected to a Router or Switch

When the NAS30U2 is connected to a LAN network with an active DHCP server, it will obtain an IP address from DHCP server automatically. Or if your LAN network does not have an active DHCP server, NAS30U2 will immediately act as DHCP server and assign itself an IP address for installation

Search NAS30U2 using SDisk Utility

1. Browse the CD enclosed in the product package. Copy and paste "SDisk Utility" in to your computer then double click the icon to start search.

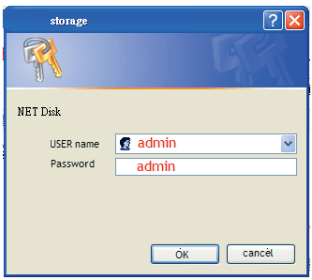
Note: "SDisk utility" was written with JAVA script, please make sure your computer has installed JAVA before, if not please install the JAVA JRE from the CD drive.

2. When NAS30U2 has been found, click “Connect” to enter web GUI utility.

Open NAS30U2 web GUI by using web browser.

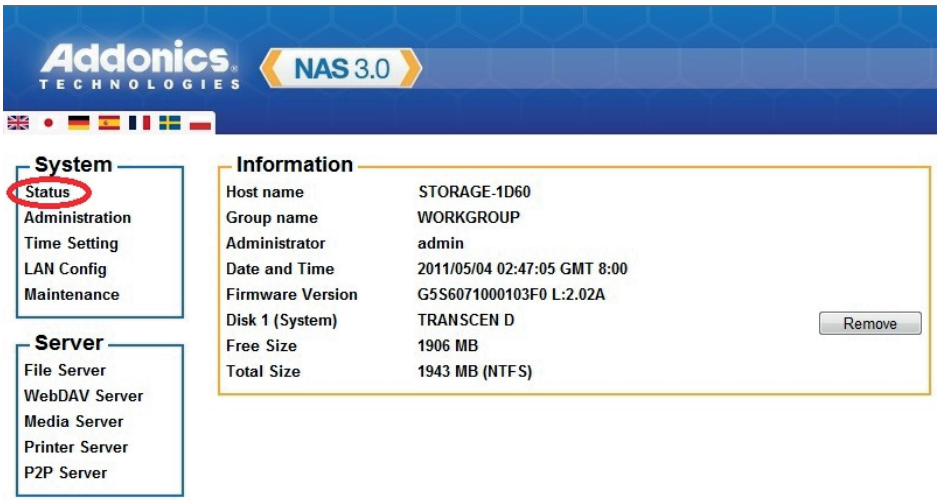
1. Open web browser and type default host name “storage” in the search bar.

2. Default login is “admin” for both User name and password. Click “OK” to enter configurations.



Status

Provide the basic information for NAS30U2.



To safely disconnect the USB hard drive, click on the Remove button.

Administration
You can change and modify your host, group name and password from this page. Click “Apply” to save the setting.

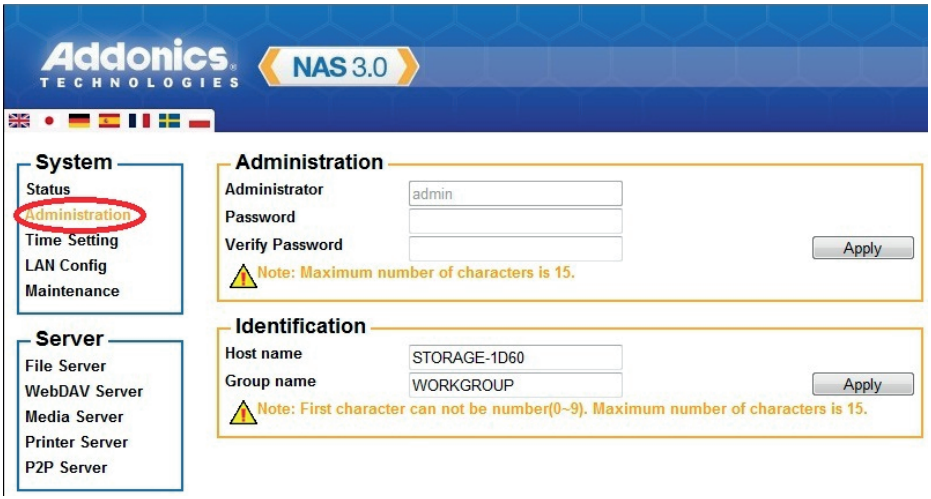
Host name: This is used to identify your device on the network. If you prefer a different name, type in the new name and click “Apply” to save setting.

Group Name: This should be the same as your workgroup. In general, the default “WORKGROUP” will be OK. But if your workstation belongs to different workgroup, type in the correct group name to modify.

For Window OS, right click on “My computer” and choose “Properties”, go to the computer name tab to see your current workgroup.

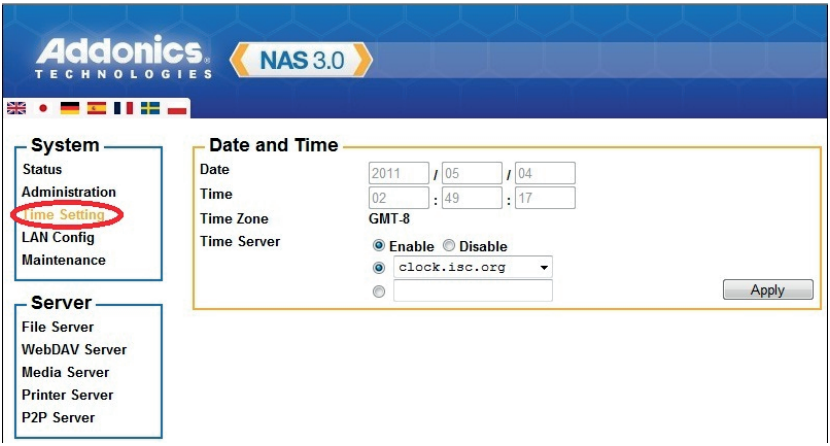
If using a Mac OS system, to join a Windows workgroup, open the directory access utility (under Applications-> utilities). Select SMB and click configure to modify the settings (administrator access required to access this option.)

Note: We strongly suggest you to change the password as soon as you logged in, to prevent unauthorized access.



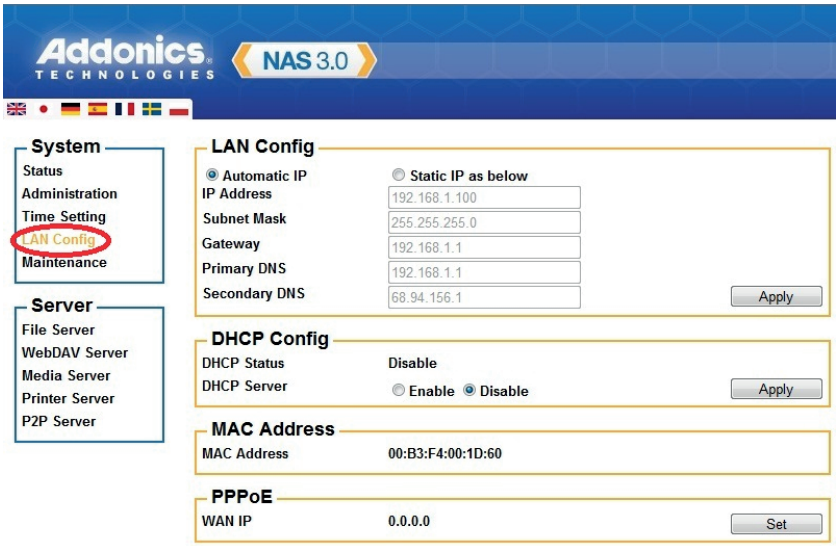
Date/ Time Setting
You can change time setting from this page. Clicks “Apply” to save the setting.

By default SNTP is set to Network Time Service otherwise select synchronize to PC. If internet access is available, we recommended setting SNTP to Network Time Service instead.



LAN Configuration

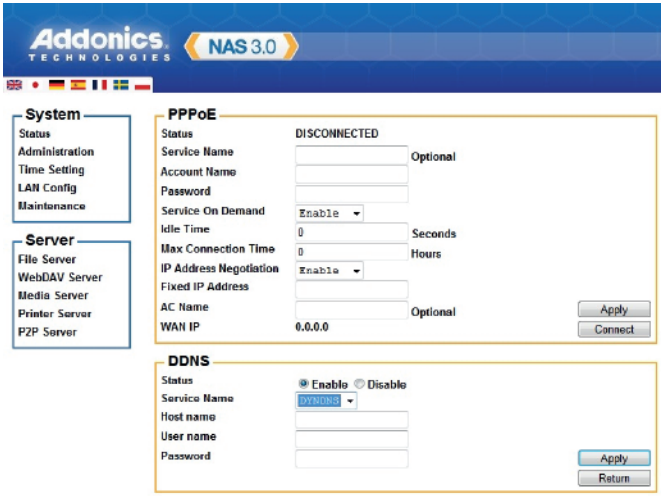
By default, “LAN Config” is set to “Automatic IP”. This will allow the NAS30U2 to obtain its IP address automatically. If you prefer setting it manually, select the static IP option, enter your own value and click “Apply” to confirm the new setting.



PPPoE Setting

PPPoE (Point-to-Point Protocol over Ethernet) is an internet connection protocol allowing users to connect to the internet without a router. All local users can share one PPPoE connection to access the internet.

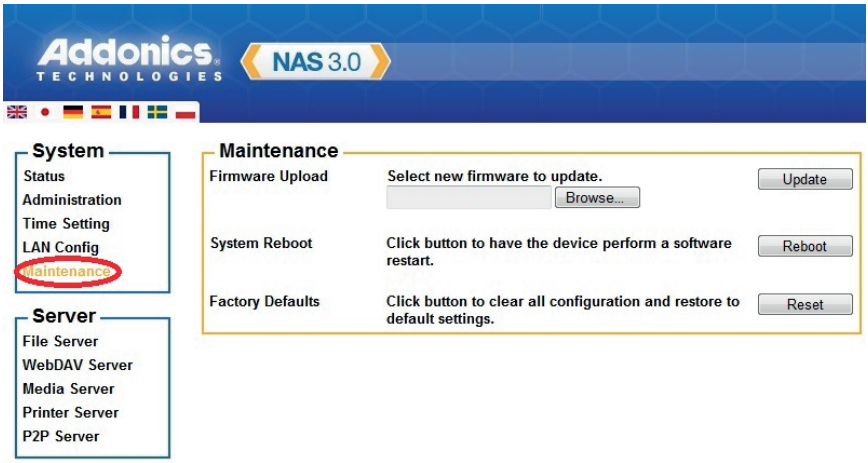
If you want to configure the setting of PPPoE for your NAS, click the “Set” button.



Status: Display PPPoE connection status.
Service Name: It's an optional field. Place any name you want that will help you remember the configuration.
Account Name: Enter your user name provided by your ISP.
Password: Enter your password provided by your ISP.
Service on Demand: The router will ONLY connect itself to your ISP when there's internet request demanded by any LAN user and disconnect itself when the transaction is done.
Idle Time (Seconds): Idle time means the storage will disconnect itself from the ISP after being idle for a specific time. If the time is set to 0, the storage will not disconnect itself.
Max Connection Time (Hours): A specific time that indicate how long the storage can stay connection with ISP.
IP Address Negotiation: IP Address and Subnet Mask should be assigned within the same network as the PPPoE-enabled DSL modem.
Fixed IP Address: Use to assign an IP address manually.
AC Name: It's an optional field. Use to configure an access concentrator (AC) name on the PPPoE interface.
WAN IP: It shows what the storage's current IP address is.

DDNS Setting
DNS service (Domain Name System) is used for the conversion of IP addresses from domain names to the numeric format. This means that there is no need to keep in mind the address 62.122.129.15, but it is sufficient to remember www.xxxx.com. Translation of the domain name into the set of numbers is performed by the appropriate DNS server, to which the computer sends a request for the translation of the address. After receiving the response with the numeric address, the computer connects to the relevant computer/server.

If you do not have register a domain name, you may apply for a free Domain name from the free DNS site http://www.dyndns.com or http://www.2mydns.com and input the host name and password and click apply to complete the setup.



Maintenance

This page allows you to update the NAS30U2 firmware, to go back to factory default settings or reboot NAS system.

Firmware update: Follow the steps below to update the loader and firmware for NAS30U2.

1. Download the latest firmware.
2. Store the firmware file on your computer and decompress them if necessary.
3. Browse your system and locate the firmware (BIN file).
4. Click on “Update”.
5. Confirm the pop-up massage to start the update.
6. Wait and DO NOT click anywhere else or turn off the power. The upgrade might take a few minutes.
7. Once the update is done, it will prompt you to reboot the device.
8. Click on ”Reboot” to restart the device.
9. Wait for about one minute and then go to the status page to confirm the update was successful.

Note: Resetting the device will NOT remove SAMBA/WebDAV account settings! Please do not power off or disconnect NAS30U2 connection during the firmware update process.

To reset the NAS adapter.

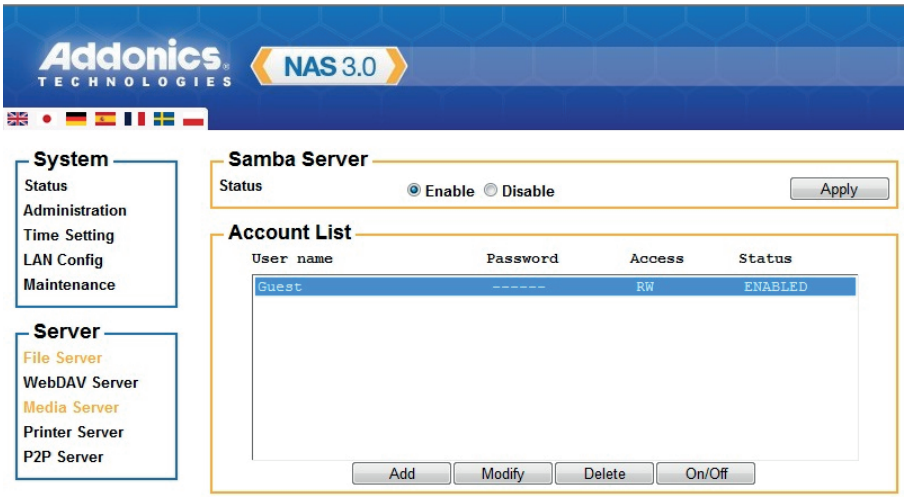
1. While the NAS adapter is powered on, press the reset button with a paper clip and keep that position.
2. Disconnect the power cable and reconnect the power after 5 seconds.
3. After 30 seconds release the reset button.

System reboot: This can be used to restart the network drive after a firmware update.

Factory defaults: If you experience problems after a firmware update, it is recommended to reset all settings.

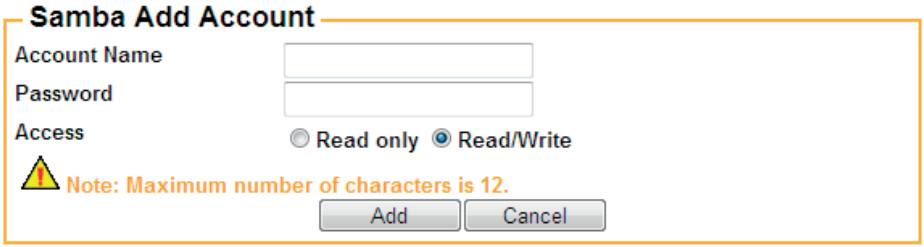
File Server (Samba server) setup
Samba server allows you to share data or files through the network LAN. When a USB storage device is connected, a default Public folder is available to be shared among Guest users. A default Guest user is also created.

Note: Only use English alphabet for folder names and no special characters when creating new folders.

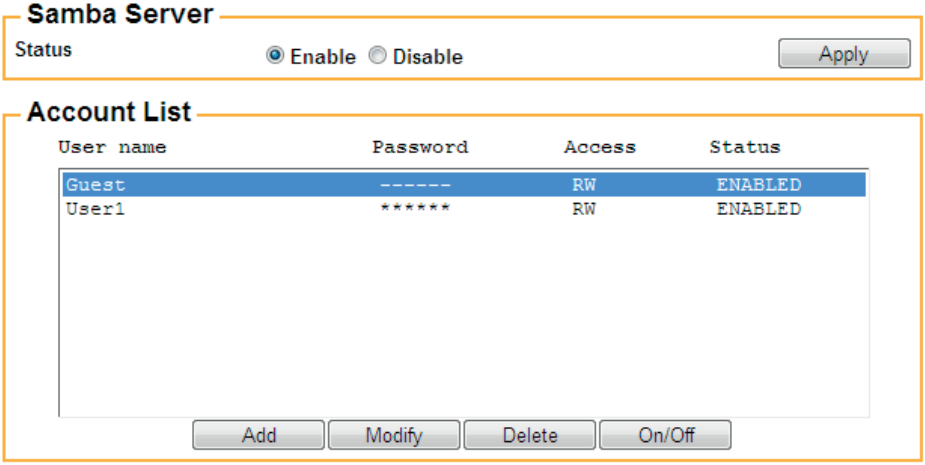


How to create a user

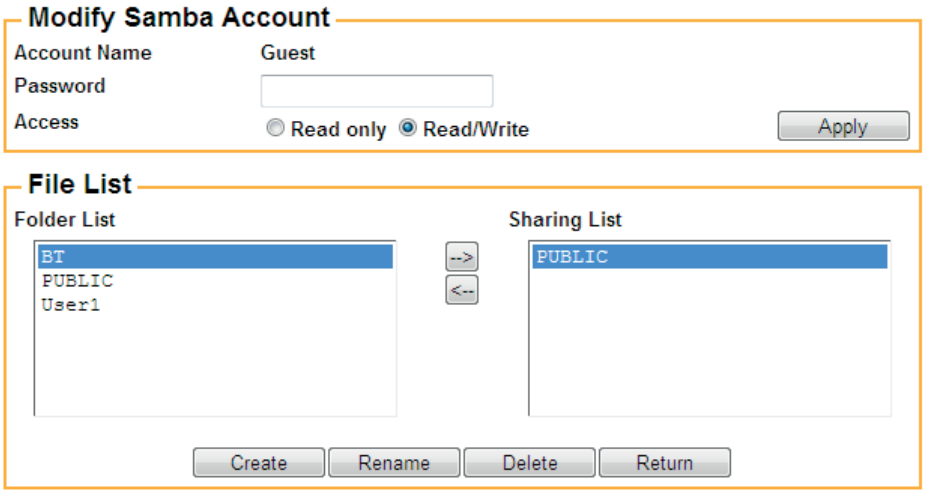
Click on the “Add” button and type new account name and password. Click “OK”. The NAS will also create a SAMBA folder named “User1”.



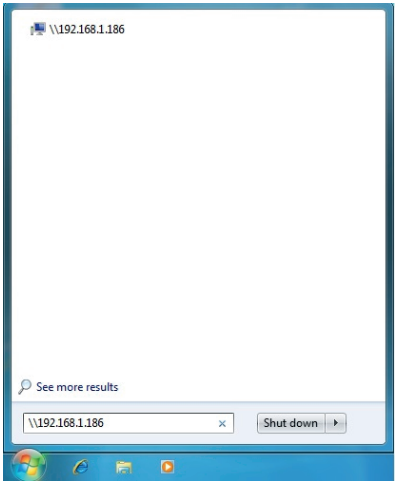
Click “Modify” to share a folder.



Select “User1” from Folder List and click the “right arrow” to add user on “Sharing List”.

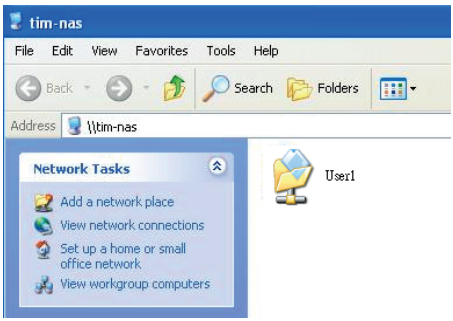


To access the PUBLIC folder of the File Server



Click on the Windows icon located on the bottom left corner of the screen, on the “Search programs and files” \\ followed by the IP address. Eg:\\192.168.1.121 and press Enter key to continue.

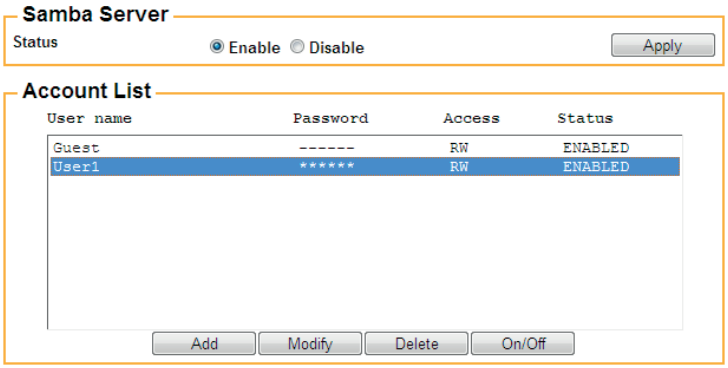
Type “Guest” as username. Leave password empty. Click on OK.
This will direct you to the Public folder on the NAS drive.



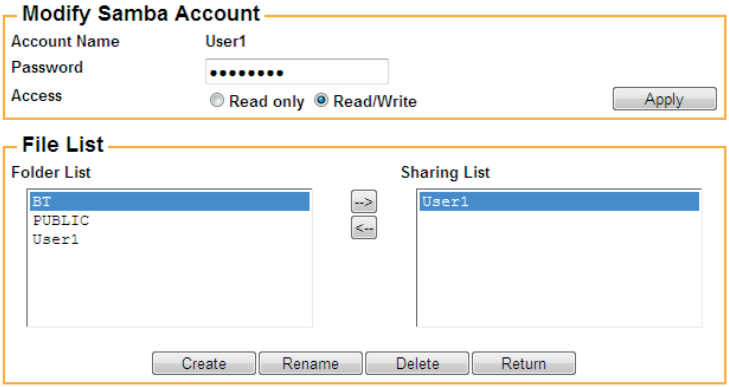
Now you have set up the folder that you wish to share on your NAS . This folder can be access from other computer on your local network.

How to modify SAMBA account password

Select “User1” and then click “Modify”.

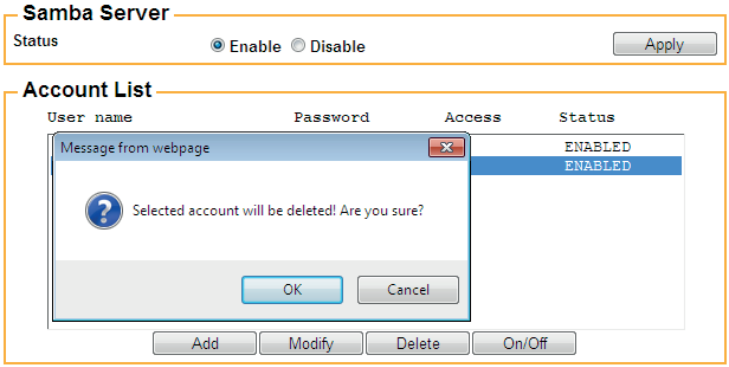


Enter new password then click “Apply” to save setting.



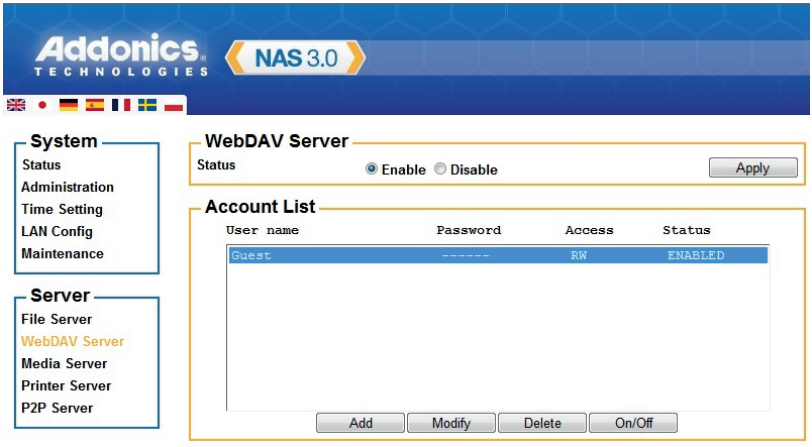
How to delete a File Server account

Select an account you wish to delete. Click “Delete” to proceed. Please note that all the data inside the folder will be lost after the delete.



WebDAV Server setup

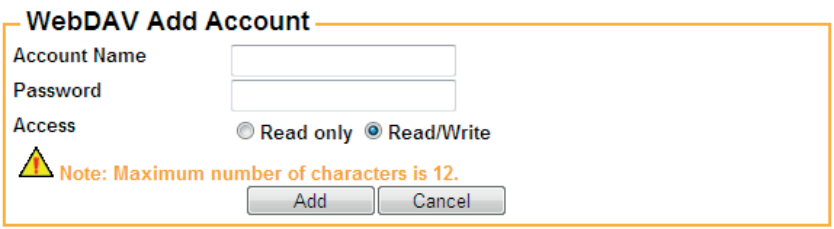
WebDAV is a set of extensions of the HTTP(s) protocol that allows a web server to appear as a standard network drive. With WebDAV support, the NAS user will be able to access the shared folders via HTTP/HTTPs protocol remotely.



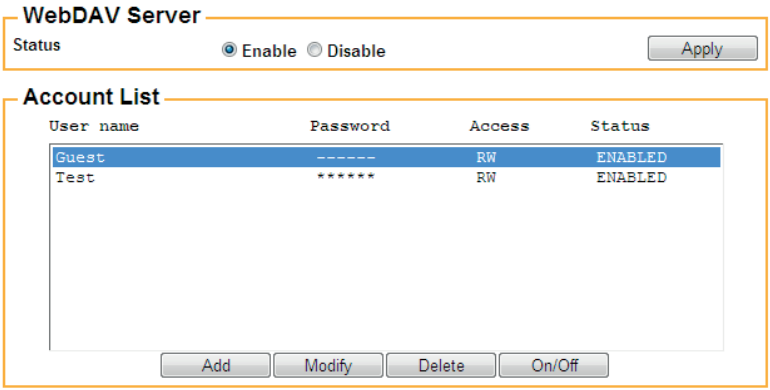
By default, WebDAV server is enabled. To disable, select “Disable” button and click Apply.

When the NAS adapter detects a USB storage device, a Guest user for WebDAV is created by default.

To create a new WebDav share account
Click on the “Add” button and type new account name and password. Click “OK”. The NAS will also create a SAMBA folder named “User1”.

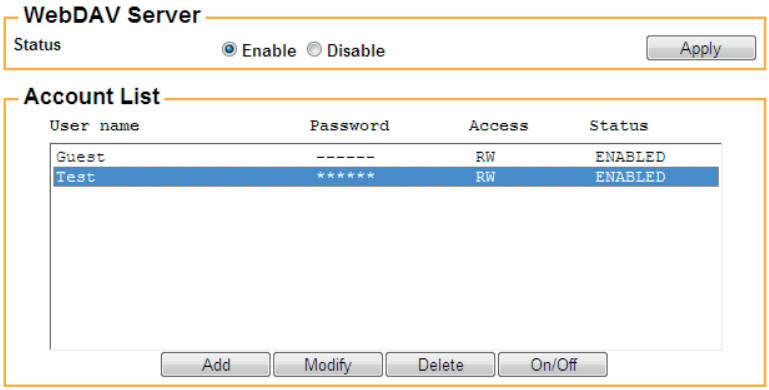


Click “Add” button. The NAS will create a username “Test” and folder named “Test”.

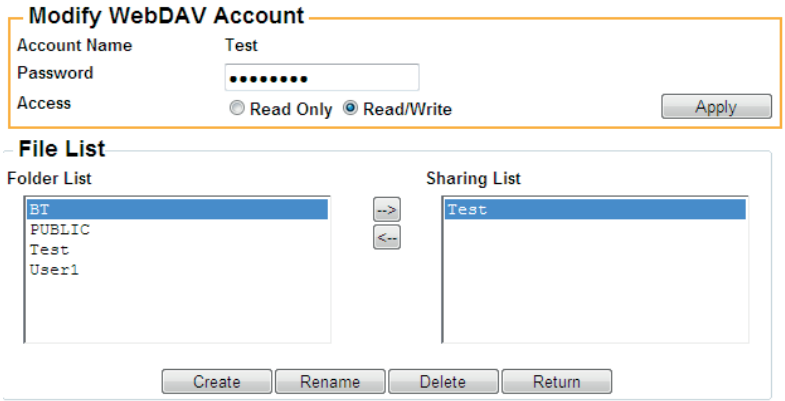


How to modify WebDAV account password

Select “Test” and then click “Modify”.



Enter new password then click “Apply” to save setting. Select “Test” from Folder List and click the “right arrow” to add folder on “Sharing List”.

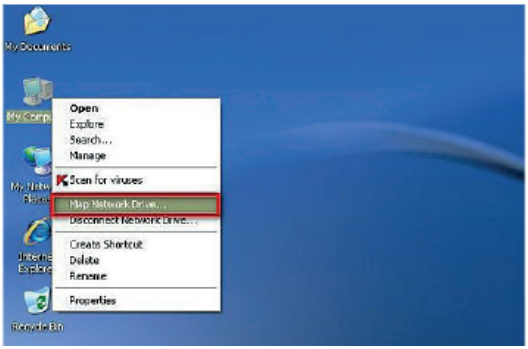


WebDAV client setup

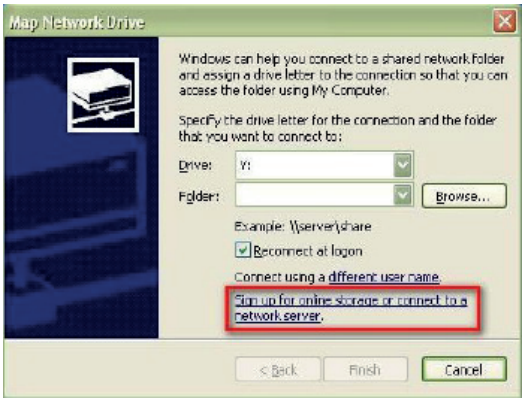
Accessing WebDAV via Windows XP

The step-by-step guide below demonstrates how to connect to your NAS via WebDAV on Windows XP.

1. Right click “May computer” and select “Map Network Drive”.

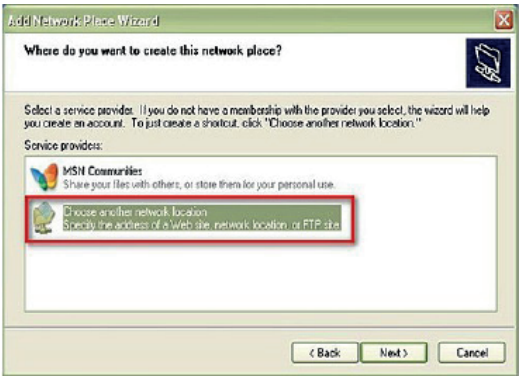


2. Click “Sign up for the online storage or connect to a network server”.

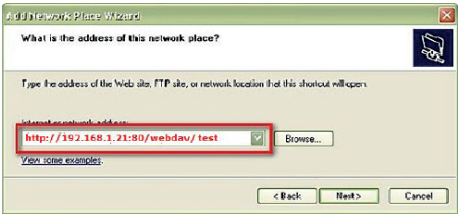

Map Network Drive
Windows can help you connect to a shared network folder and assign a drive letter to the connection so that you can access the folder using My Computer.
Specify the drive letter for the connection and the folder that you want to connect to:
Drive:
Y:
Folder:
Browse...
Example: \\server\share
Reconnect at logon
Connect using a different user name.
Sign up for online storage or connect to a network server.
< Back
Finish
Cancel

3. Select “Choose another network location”

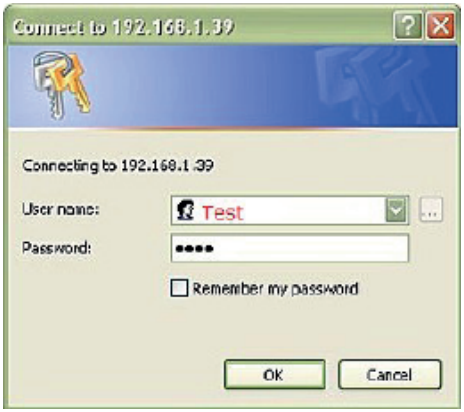
4. Enter the URL of your NAS with the share folder name. In our example type “http://NAS_IP:80/webdav/test” and click “Next” and go to the next step.


Add Network Place Wizard
Where do you want to create this network place?
Select a service provider. If you do not have a membership with the provider you select, the wizard will help you create an account. To just create a shortcut, click "Choose another network location."
Service provides:
MSN Communities
Share your files with others, or store them for your personal use.
Choose another network location
Specify the address of a Web site, network location, or FTP site.
< Back
Next >
Cancel

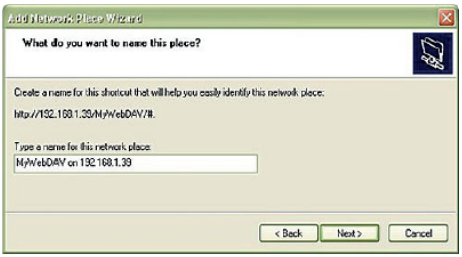
Note:
NAS IP:80 = for example 192.168.1.121:80
Test = The folder you would like to share.



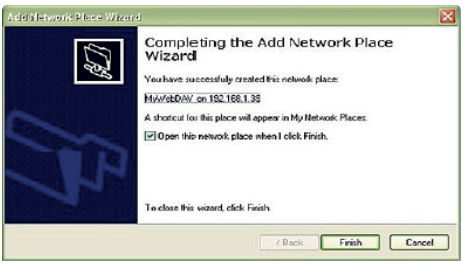
5. Enter the user's name and its password which has the WebDAV privilege
to access this shared folder.



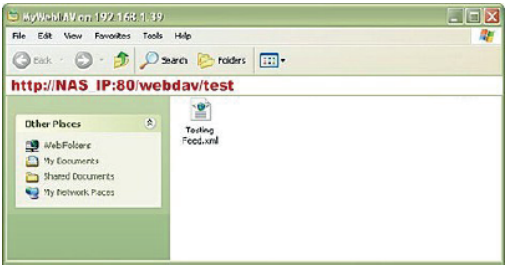
6. Name the network place.


What do you want to name this place?
Create a name for this shortcut that will help you easily identify this network place:
Type a name for this network place:
MyWebDAV on 192.168.1.39
< Back
Next >
Cancel

7. The network place has been created and ready to use.


Completing the Add Network Place Wizard
You have successfully created this network place:
MyWebDAV on 192.168.1.39
A shortcut for this place will appear in My Network Places.
Open this network place when I click Finish.
To close this wizard, click Finish.
< Back
Finish
Cancel

8. Now you can access this share folder anytime through WebDAV. A shortcut has also been created in “My Network Places”.



Note: Windows default capacity for WebDAV is 500MB only.

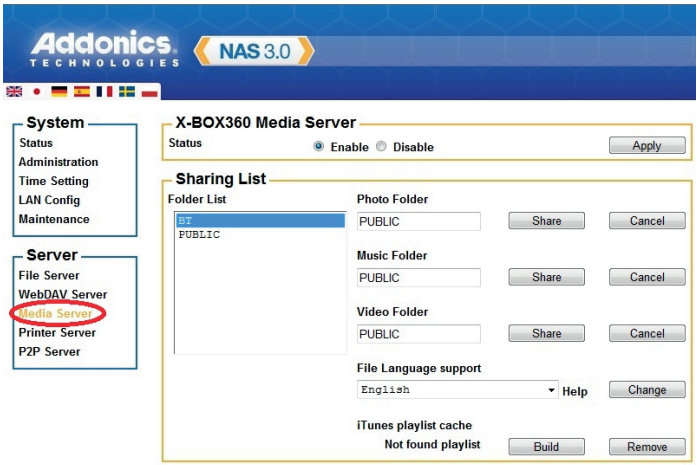
You may also download a third party WebDAV client software. For Windows OS, you may use NETDRIVE. For Apple platform, you may consider TRANS-MIT

XBOX 360 Media Server

The Media server can be used to share your photo and music files stored on the NAS30U2 with an X-BOX360 video game console from Microsoft.

Before you start, make sure both devices are connected to the same local network and turned on.

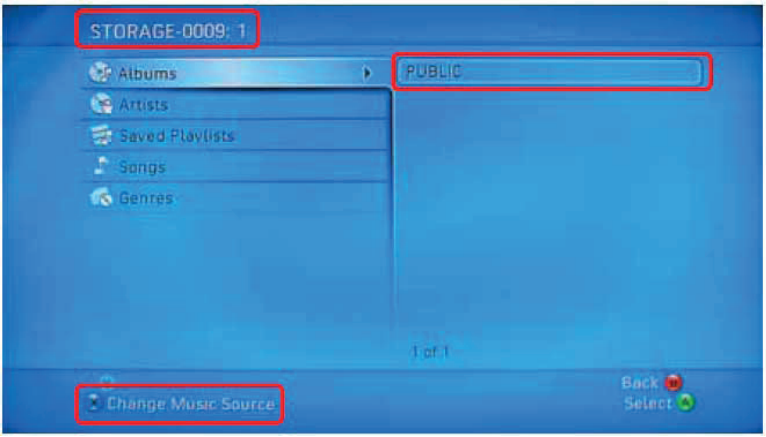
Go to the X-BOX360 Media Server page, select the folder where your photo files are located using the drop down menu. Once you have selected the folder, click on the “Share” button. This will enable this folder as the shared folder. Under Photo Folder “PUBLIC” is displayed. To remove the folder as shared, click on Cancel button.



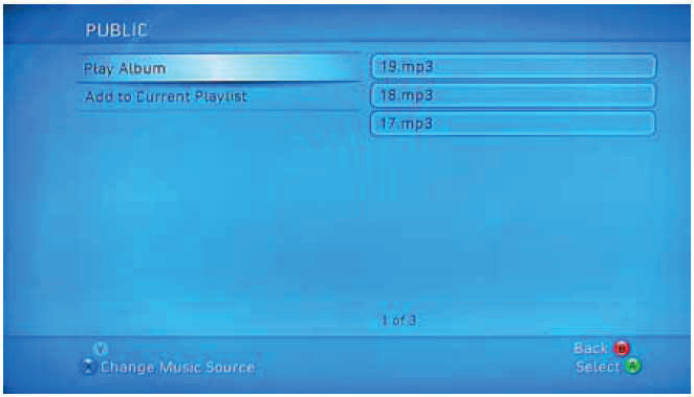
Same procedure applies for the Music and Video folders.

On your Xbox 360, go to “Media” tab, select either Music or Pictures and press A button of the Xbox console to continue.

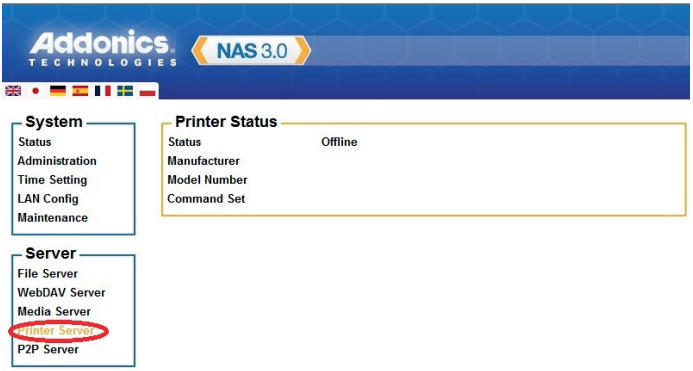
Press X button of the Xbox console to change the source and select your network drive. It should show up as storagexxx and display the folder that you have set up earlier on your NAS30U2.



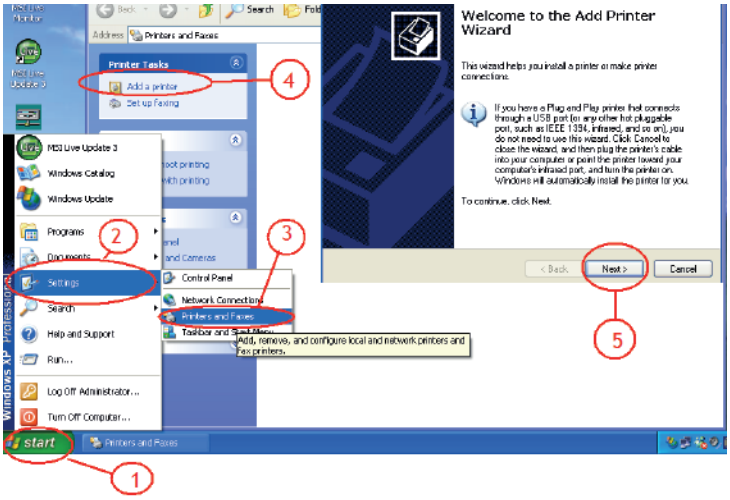
Inside the share folder, you can access your picture or music files, depending on which mode you are currently using. Select the files you would like to see or to listen, and start playback.



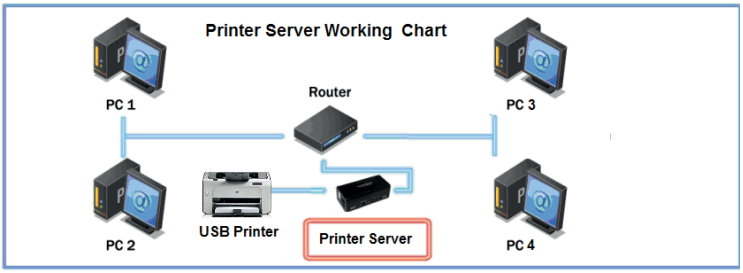
Print Server



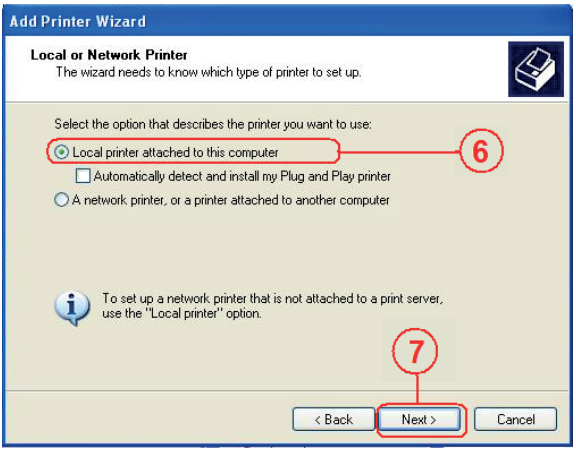
1. Install printer driver, (for example. if Epson PL-6200L Printer is connected to the NAS30U2, you must install PL-6200L driver into the computer first.) After driver installation, click “Start” → “Setting” → “Printer and Faxes” → “Add a printer”→ “Next”.



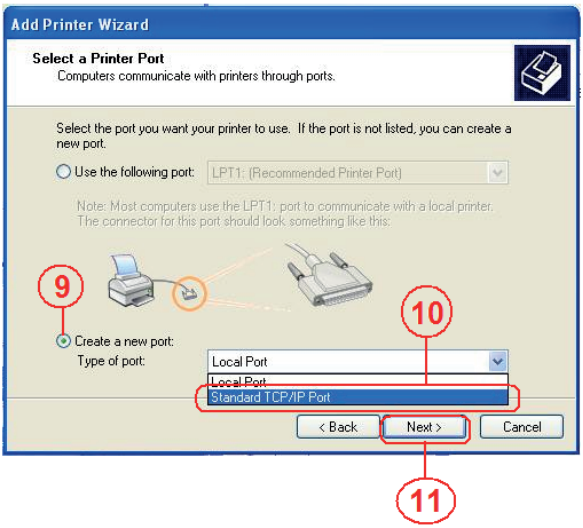
2. Connect USB printer to NAS30U2. Your network environment should be similar with diagram below:



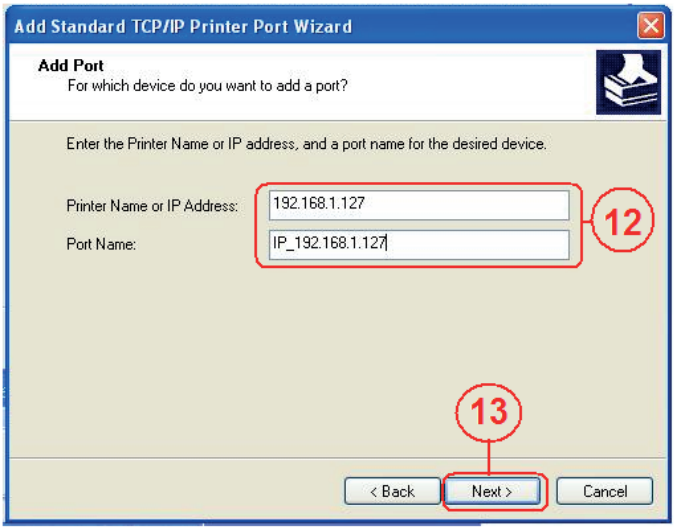
3. Select “Local printer” and click “Next” to continue.


Add Printer Wizard
Local or Network Printer
The wizard needs to know which type of printer to set up.
Select the option that describes the printer you want to use:
Local printer attached to this computer
6
Automatically detect and install my Plug and Play printer
A network printer, or a printer attached to another computer
To set up a network printer that is not attached to a print server, use the "Local printer" option.
7
< Back
Next >
Cancel

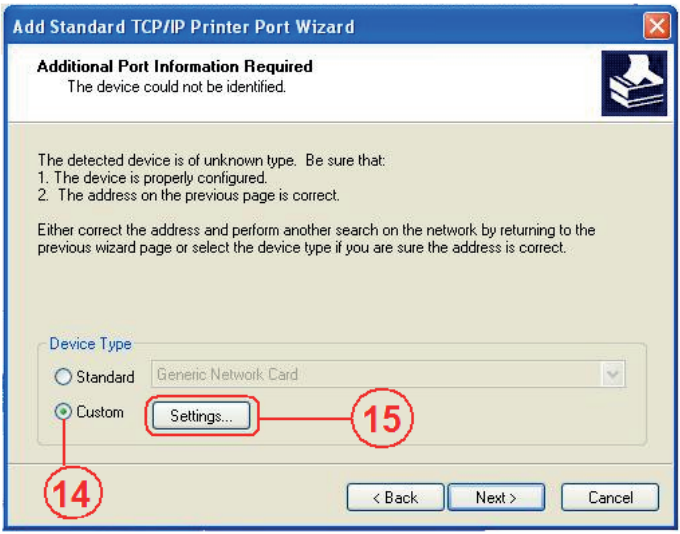
4. Select “Create a new port type of port:” then choose “Standard TCP/IP Port” then click “Next” to continue.


Add Printer Wizard
Select a Printer Port
Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port:
LPT1: (Recommended Printer Port)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
9
10
Create a new port:
Type of port:
Local Port
Local Port
Standard TCP/IP Port
< Back
Next >
Cancel
11

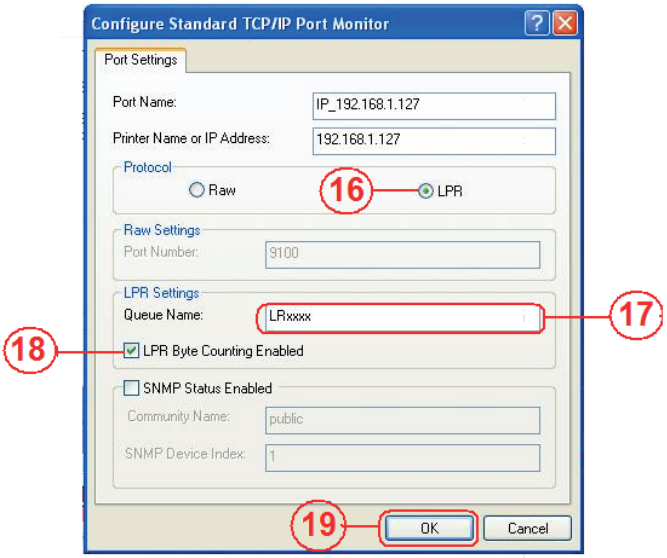
5. Enter the NAS30U2 IP address then click “Next” to continue.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.1.127
Port Name:
IP_192.168.1.127
12
13
< Back
Next >
Cancel

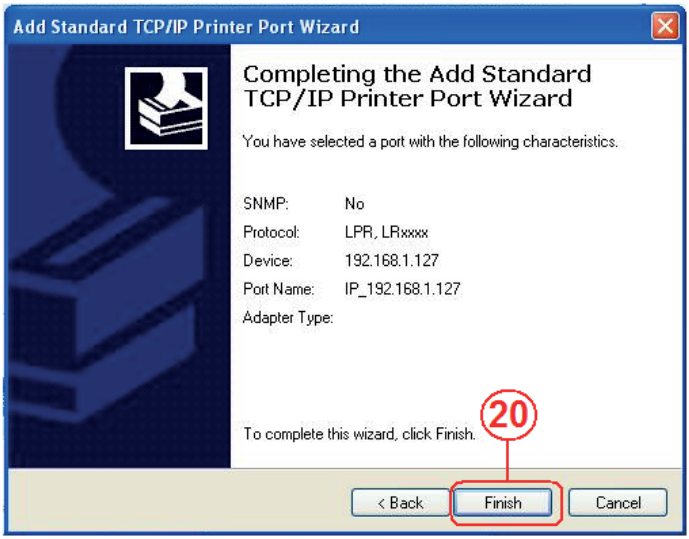
6. Select “Custom” and go to “Setting”.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The detected device is of unknown type. Be sure that:
1. The device is properly configured.
2. The address on the previous page is correct.
Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Standard
Generic Network Card
Custom
Settings...
15
14
< Back
Next >
Cancel

7. Select “LPR” under protocol, and give a queue name eg:LRxxx; select LPR Byte Counting Enabled then click “OK” to finish the port setting.



8. Click “Finish” to complete TCP/IP printer setup.

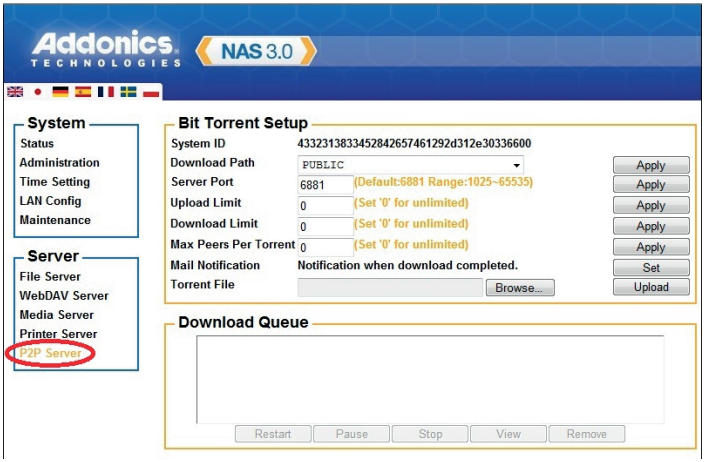


Note: The NAS30U2 printer server does not support GDI/Host-based printers. For some Multi Function Printers (MFP); scanning functions might not be functional probably. Please contact Printer Manufacture for detail Specifications.

P2P Server

The NAS30U2 supports Bit Torrent download without using PC resource.
A maximum of 4 bit torrent downloads can be running at the same time.

1. Select “Bit Torrent” and select the “Download Path” you wish to use. Then click “Apply” to save setting. (DO NOT change path setting while performing BT download, otherwise downloading jobs will disappear)
2. Server Port range can be from 6881 to 65535. (6881 is default setting)
3. Type an upload speed limit: 0= unlimited upload speed, and 4 KB is minimum speed. Then click “Set” to save setting.

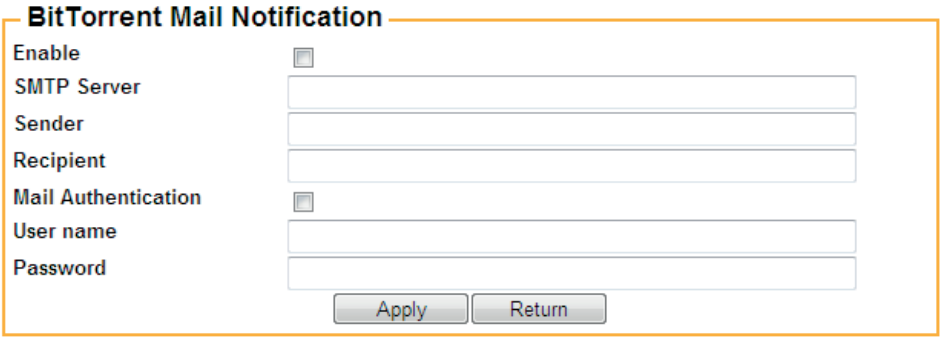


4. Click “Browse” and select torrent file then click “Upload” The file will show up to the download queue.

Note: Jobs listed in the Download Queue will be removed when NAS30U2 is turned off or USB storage is removed.

Mail Notification

After a download is successful, an email will be sent to the designated email address. Click “Mail setup” and input SMTP server, recipient email, SMTP A/C, Password, than click “Apply” to save setting.



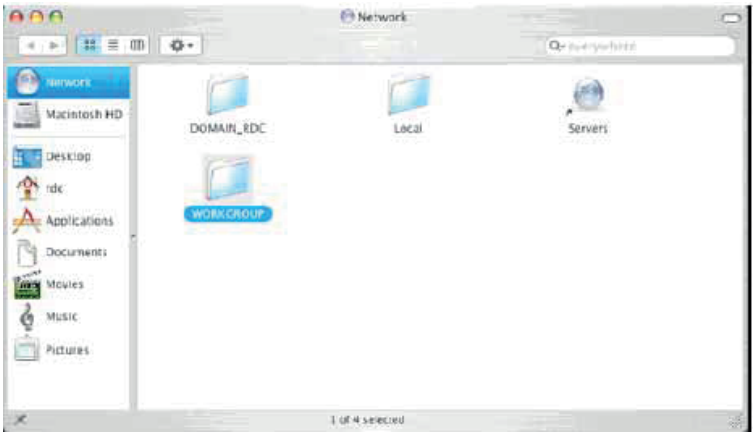
Mac installations (Mac 10.5.4 or above)

Open the Mac browser “Safari” and key-in the host name of the NAS30U2 (for example, “Storage-0000”). It will detect the NAS30U2 automatically.

How to setup SAMBA in Mac OS X 10.5.4

1. Click “Go” on the toolbar, and select ”Network” as the screenshot shown below.

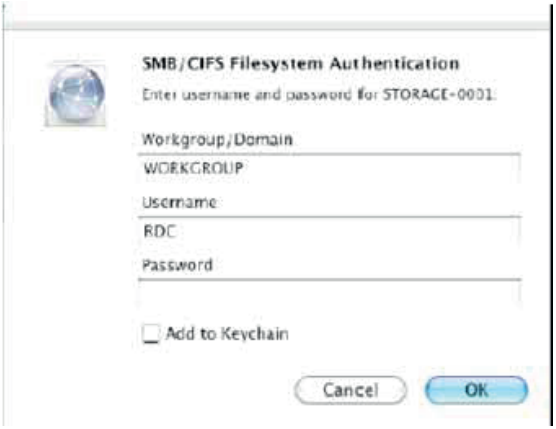
2. Double Click “WORKGROUP” (or the correct group name of the NAS30U2), you will find the NAS30U2 “STORAGE-xxxx” (or the correct name of the NAS30U2) in following window.



3. Click on the Storage-xxxx (or the correct name of the NAS30U2).

4. Select the folder you wish to share, and click “OK” to share the folder.

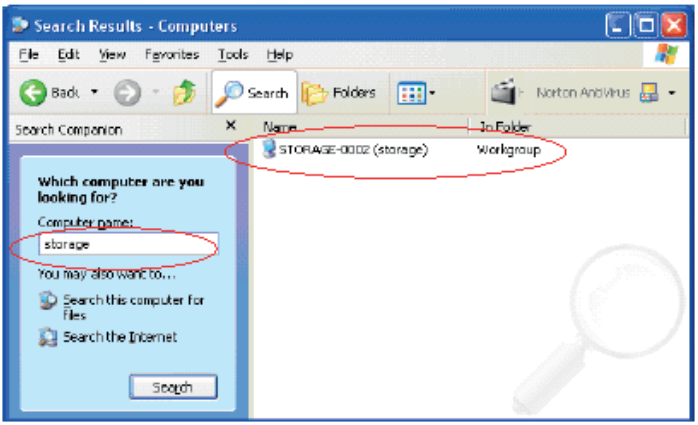
5. Click “OK” to show the folder in the Desktop.



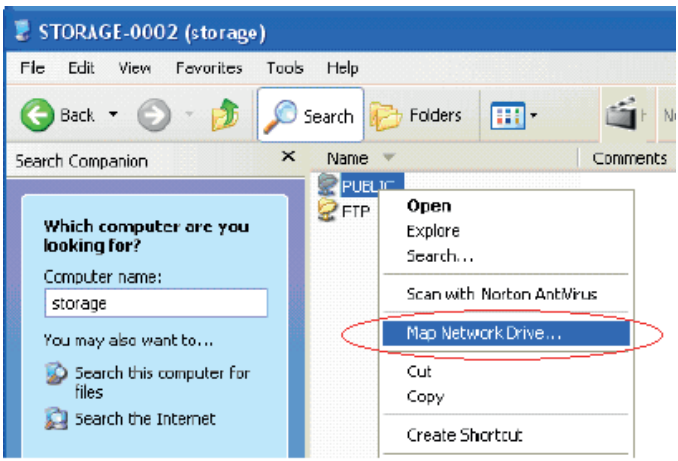
How to Map your NAS30U2 to your system.

Showing NAS Disk Drive in network

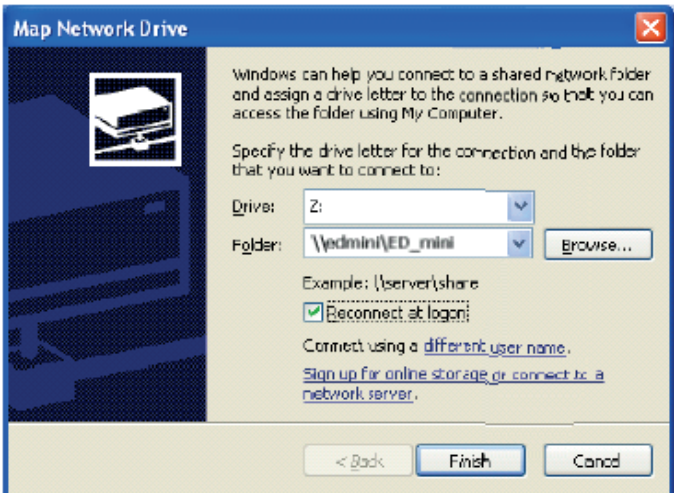
1. Press “Start” button on Windows desktop
2. Press “Search”
3. Select Folders
4. Select Computer or people
5. Select a computer on the network and a new window will appear.
6. Key in the host name, (For example “storage-xxxx”) in the “Computer name” column and then press “Search” button. You will see the following window.



7. Point to the “Storage-xxxx”, double click the mouse. Choose the folder you wish to map, click mouse on its right button and click “Map Network Drive”.



Map Network Window appears


Map Network Drive
Windows can help you connect to a shared network folder and assign a drive letter to the connection so that you can access the folder using My Computer.
Specify the drive letter for the connection and the folder that you want to connect to:
Drive:
Z:
Folder:
\\edmini\ED_mini
Browse...
Example: \\server\share
Reconnect at logon
Connect using a different user name.
Sign up for online storage or connect to a network server.
< Back
Finish
Cancel

Note: For faster connection and usability, we recommend that you map a drive. This creates a direct access to the shared drive from My Computer (for more information about drive mapping, refer to your Windows manual).

Access SMB folder of NAS30U2 in Ubuntu 8.04

First, using the console get the prerequisites for the samba file system:
$ sudo aptitude install samba smbfs
$ mkdir /mnt/NAS
$ sudo mount.cifs //NAS_adapter_IP_address/Public /mnt/NAS -o username=Guest

Search NAS30U2 by SDisk Utility in Ubuntu 8.04
You are going to be installing the JRE and the web browser plug-in. Use the following command from a terminal
$ sudo apt-get install sun-java6-jre sun-java6-plugin sun-java6-fonts

Check that the JRE is properly installed by running the following command from a terminal.
$ java -version
You should get similar output
java version “1.6.0″
Java(TM) SE Runtime Environment (build 1.6.0-b105)
Java HotSpot(TM) Client VM (build 1.6.0-b105, mixed mode, sharing)

Navigate to the folder where the jar file is located
$ java –jar Sdisk.jar

Frequently Asked Questions:

Q: What is NAS 3.0 default IP?
A: The default IP address for NAS 3.0 is 169.254.0.1 or enter “storage” in IE browser bar to search for it.

Q: What is NAS 3.0 default login name and password?
A: The NAS 3.0 default Login name: “admin”, default password: “admin”.

Q: Forgot my login password, what should I do?
A: Please follow the steps below.
Press the reset button and keep that position.
Unplug and reconnect the power.
Wait for 30 seconds, and then release the reset button.
NAS will go back to factory defaults.
PS: Only SAMBA/WebDAV account settings will remain in the NAS 3.0 Hard disk others settings will go back to factory default.

Q: Why can’t I create Accounts in SAMBA or WebDAV ?
A: A USB storage device must be connected to the NAS 3.0 to create Samba or WebDAV accounts.

Q: Why can’t I upload the files via LAN connection or got disconnected?
A: Please make sure you are connected to the network properly and you have the access right (read & write) for the folders.

Q: How to setup NAS 3.0 to be in Daylight saving time?
A: NAS 3.0 does not support Daylight saving time setting.

Q: Why WinXP can not enter SMB folder with password via NAS 3.0?
A: Please update Win XP to SP2 or above. After the update, please make sure if you have installed Norton Internet Security, if you do, please check with Norton service center.

Q: What Operating Systems does NAS 3.0 support?
A: NAS 3.0 supports Microsoft Windows 2000/XP/Vista and Apple Macintosh OS 10.5.4 above.

Q: What is the limitation of user to login Samba server?
A: Samba Server User Level Access (maximum create 16 user accounts, 16 folders shared by one account)
Maximum User Login Samba 8 User (Total 64 TCP connection at the same time)

Q: Why can't I store 4GB data in WebDAV?
Microsoft Windows WebDAV support is still as little as 4GB, if you are demanding larger data transferring over than 4GB, it would likely to fail.
Therefore, install a WebDAV client software is another alternative, software like BitKinex or Netdrive can be downloaded from the website below:
www.bitkinex.com/download
www.netdrive.net/download.html

Q: Does WebDAV support Win XP SP1?
Microsoft Windows WebDAV support is for system using XP Service pack 2. If you are using service pack 1, please download and install file “Webfldrs-KB907306” from Microsoft support website.

Q: Does WebDAV support Mac O/S?
Yes. WebDAV can be use in Mac O/S 10.5 above, for more setup information please refer to WebDAV support website:
www.webdav.org/goliath/dav_on_x.

Q: Why can't I create new WebDAV link in my windows computer? It always connect to the link which I deleted previously.
Please go to recycle bin in your computer and clean the WebDAV link which you have deleted previously.